	Application No.	Applicant(s)	
Notice of Allowability	09/940,072	YANG ET AL.	
	Examiner	Art Unit	
	Carlos Lopez	1731	
The MAILING DATE of this communication appeal of the communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not include unication will be mailed in due	ed course. THIS
1. This communication is responsive to 6/19/06 and 9/18/06.			
2. The allowed claim(s) is/are <u>1-4,6-7,9-24,29-38,50,52-55,57-75,77-82</u> .			
 3. Acknowledgment is made of a claim for foreign priority uses a) All b) Some* c) None of the: Certified copies of the priority documents have completed as a claim for foreign priority uses as a claim for foreign priority uses as a claim for foreign priority uses a claim for foreign priority documents have a claim for foreign priority documents	e been received. e been received in Application cuments have been received of this communication to file	on No ed in this national stage applicat	
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of			
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview S Paper No. 7. Examiner's	nformal Patent Application Summary (PTO-413), /Mail Date <u>9/18/06</u> . S Amendment/Comment S Statement of Reasons for Allo	wance

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Drawings

The drawings filed on 8/27/01 are accepted by the Examiner.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tani Chen on 9/18/06.

The application has been amended as follows:

50. (Currently amended) A method comprising:

providing a mold;

silanizing the mold;

filling the <u>silanized</u> mold with a ceramic precursor; and dissolving the <u>filled</u> mold in a solution containing fluoride ions.

52. (Currently amended) A method comprising:

providing a silanized mold having at least one component with at least one dimension less than 100 µm;

providing a ceramic precursor having sufficient viscosity to completely fill the mold, wherein the viscosity of the ceramic precursor is adjusted to have a value of less than about 500 cm²/s;

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thereafter, filling the mold with the ceramic precursor, and dissolving the <u>filled</u> mold in a solution containing fluoride ions.

53. (Currently amended) A method comprising:

providing a mold having at least one component with at least one dimension less than 100 μm ;

reacting the mold with an agent selected from the group consisting of an alkylating, silylating, fluoroalkylating, or alkylsilylating agent, such that the mold is inert with respect to reaction with a ceramic precursor and any subsequent products resulting from the ceramic precursor;

thereafter, filling the mold with the ceramic precursor; and dissolving the <u>filled</u> mold in a solution containing fluoride ions.

54. (Currently amended) A method comprising:

providing a mold having at least one component with at least one dimension less than 100 μm ;

positioning a surface of the mold against a surface of a substrate to create a cavity which a ceramic precursor fills;

treating the substrate surface to render the substrate inert with respect to reaction with the ceramic precursor and any subsequent products resulting from the ceramic precursor; and

dissolving the mold <u>comprising the ceramic precursor</u> in a solution containing fluoride ions.

55. (Currently amended) A method comprising:

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providing a silanized mold having at least one component with at least one dimension less than 100 μm ;

allowing a ceramic precursor to enter a volume of lower pressure in the mold;

dissolving the mold <u>comprising the ceramic precursor</u> in a solution containing fluoride ions.

57. (Currently amended) A method comprising:

providing a mold having at least one component with at least one dimension less than 100 μm ;

filling the mold with a ceramic precursor;

curing the ceramic precursor in the mold under a moisture-free atmosphere; and

dissolving the mold <u>comprising the ceramic precursor</u> in a solution containing fluoride ions.

58. (Previously presented) A method comprising:

providing a mold having at least one component with at least one dimension less than 100 μm ;

filling the mold with a ceramic precursor; and dissolving the <u>filled</u> mold in a solution containing fluoride anions.

59. (Currently amended) A method comprising:

providing an elastomeric mold comprising polydialkylsiloxane material having at least one component with at least one dimension less than 100 µm;

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filling the mold with a ceramic precursor; and

heating the ceramic precursor <u>in the mold</u> to produce a structure comprising of a ceramic, the structure having a Young's modulus that does not change more than 10% upon heating to 1400 °C in an inert atmosphere; and

dissolving the mold comprising the heated ceramic precursor in a solution containing fluoride anions.

- 63. (Currently Amended) The method of claim 52, further comprising heating the ceramic precursor in the mold to produce a structure comprising ceramic.
- 66. (Currently Amended) The method of claim 53, further comprising heating the ceramic precursor in the mold to produce a structure comprising ceramic.

Claim 76 has been cancelled.

- 77. (Currently Amended). The method of claim [76] <u>57</u>, wherein the ceramic precursor is cured in the mold under an inert and/or a moisture free atmosphere.
- 82. (Currently Amended). The method of claim 81, wherein the ceramic precursor is cured in the mold under an inert and/or a moisture free atmosphere.

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlos Lopez whose telephone number is 571.272.1193. The examiner can normally be reached on Mon.-Fri. 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571.272.1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CL

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